

Test 15

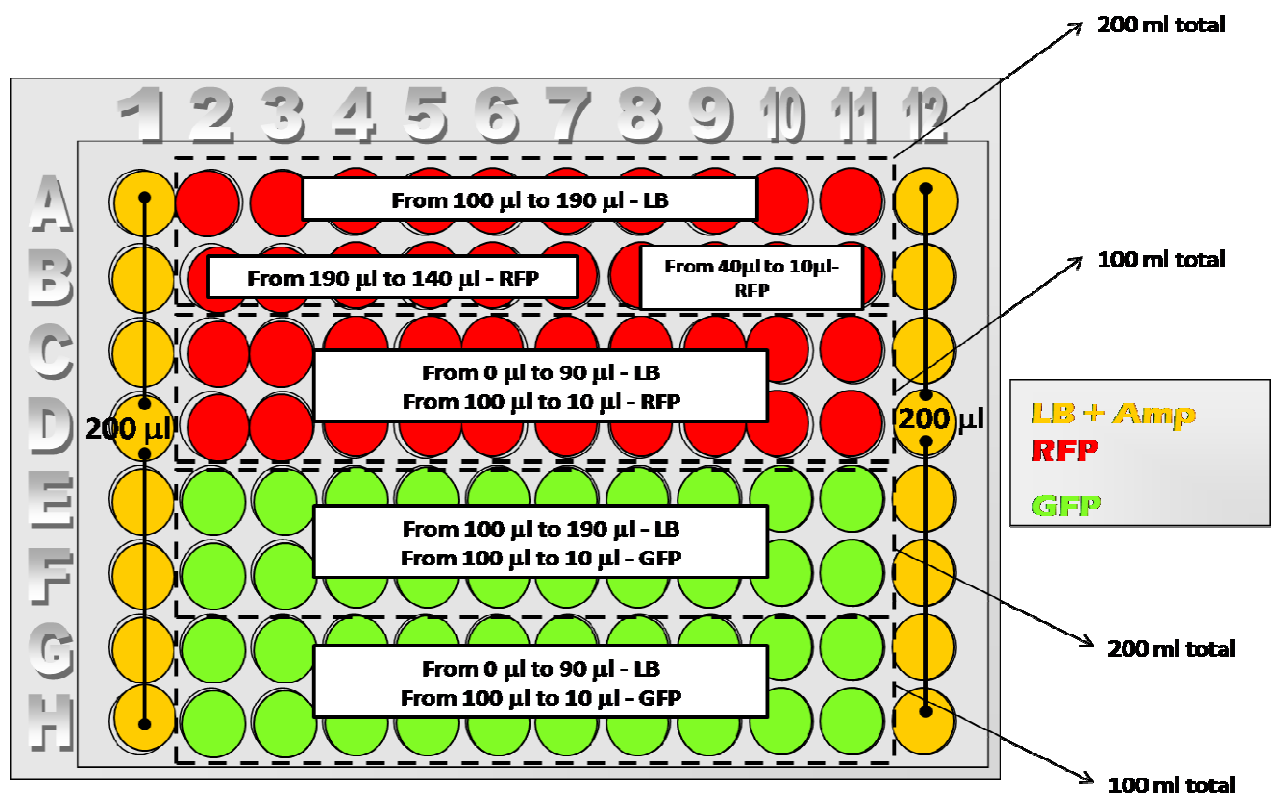
Description:

Study of culture's fluorescence in different dilutions, in different temperatures (ambient temp. and 37°C) and in different total volumes in the well (100 μ l and 200 μ l).

Purpose: Find out the relationship between measurements and culture concentration (study of the static measurement at time=0, also in different total volumes), study the temporal variation of fluorescence measurement in long incubations.

Methods: A flat-bottom non sterile plate is used. 96 wells are filled with:

- From 0 to 200 μ l LB+Amp.
- From 0 to 100 μ l bacteria.



Protocol:

- The plate is filled as described in Methods
- The instrument temperature is set before at 18°C then at 37°C
- Two cycles with the same dynamic
- Dynamic cycle for 4 hours at 18°C
 - Shaking 60 s linear 3mm, waiting 10 s and absorbance and GFP/RFP measurement.
 - Waiting 7 min, shaking 15 s linear 3mm, waiting 10s, before the next reading.
 - Fluorescence gain setting: 50 to avoid overflow
- Dynamic cycle for 12 hours at 18°C
 - Shaking 60 s linear 3mm, waiting 10 s and absorbance and GFP/RFP measurement.

- Waiting 7 min, shaking 15 s linear 3mm, waiting 10s, before the next reading.
- Fluorescence gain setting: 50 to avoid overflow